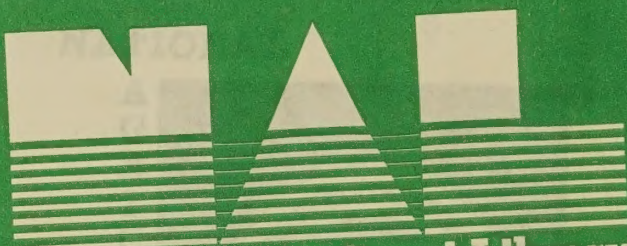






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# BIBLIOGRAPHY OF AGRICULTURE

## ANNOUNCEMENT

BEGINNING WITH THIS ISSUE, THE MONTHLY AUTHOR INDEX HAS BEEN DIVIDED INTO TWO PARTS:

- I. INDEX OF PERSONAL NAMES, WHICH INCLUDES NAMES OF ALL PERSONS INDEXED IN THE ISSUE WHETHER THEY APPEAR AS AUTHORS, JOINT AUTHORS, OR SUBJECTS OF THE ARTICLES INDEXED.
- II. INDEX OF ORGANIZATIONS, ACTS, MEETINGS, PUBLICATIONS, AND AWARDS. ORGANIZATIONS MAY APPEAR EITHER AS AUTHORS OR SUBJECTS OF THE ARTICLES INDEXED.





## BIBLIOGRAPHY OF AGRICULTURE

Vol. 28

June 1964

No. 6

The Bibliography of Agriculture is an index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Publications from any country are indexed, provided they are in one of the languages shown in CAPITALS at bottom of this column, or have summaries or abstracts in one of those languages.

Literature received more than one year after publication is generally not indexed. Exceptions are made for important scientific publications.

Indexing of articles on the processing of agricultural products is limited to those on primary processing.

Unsigned articles and those signed with pseudonyms or initials, editorials, letters to the editor, and columns appearing regularly, are omitted.

### FORMAT

The Bibliography is a classified arrangement of references under the following subjects:

Plant Science  
Soils and Fertilizers  
Forestry  
Animal Industry  
Entomology  
Agricultural Engineering  
Agricultural Products  
Agricultural Economics and  
Rural Sociology  
Food and Human Nutrition  
Miscellaneous

The classified section is followed by the listing of:

New Periodicals and Serials  
Translations  
USDA Publications  
State Agricultural Experiment  
Station Publications  
State Agricultural Extension  
Service Publications  
Food and Agriculture Organization  
of the UN (FAO) Publications

The last section of each monthly issue is the Personal and Organizational index for that issue.

Foreign language titles of articles in serial publications are given in English only. The language of the text is shown in abbreviated form in parentheses at the end of the title. The following notations are used:

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Vol. 28

July 1964

No. 7

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Plant Science  
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Forestry  
Animal Industry  
Entomology  
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Agricultural Products  
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Rural Sociology  
Food and Human Nutrition  
Miscellaneous

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**AGRICULTURAL PRODUCTS: PROCESSING,  
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**GENERAL**

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The Personal Index in this issue has been prepared with the aid of an optical scanner—a character recognition device—in combination with computers. The optical scanner portion of the index production is a relatively novel approach to the preparation of an index. Unlike the machine that can recognize special numerals only, such as those printed on bank checks, the optical scanner used in this system “reads” both numeric and alphabetic characters.

To do this, the material to be read is typed, at random, in a specially designed type face on continuous perforated sheets which are advanced through the typewriter by a pinfeed mechanism. The sheets are separated and mounted on the scanner which “reads” the typed characters, one line at a time, transferring the images to a magnetic tape in the form of magnetized spots. Alphabetizing of the random listings is performed by a high capacity computer, and a new magnetic tape is produced on which the names are in correct alphabetic order.

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The next phase of the Bibliography's mechanization calls for the application of the same optical scanner-computer combination for the production of a monthly subject index and an annual cumulative subject index. This index requires more complex systems designing and programming. Our experience in this and other phases of mechanization of the Bibliography of Agriculture will be reported as they are actuated.

The development of this system is due in great part to the work of Earl Hoisington, Office of Management Appraisal and Systems Development, who guided the Task Force and designed the total system. Credit is also due Ljubo Lulich, Chief, Division of Indexing and Documentation, NAL, for his practicality in adapting these new procedures to our bibliographic work.

*Foster E. Mohrhardt*

Foster E. Mohrhardt, Director  
National Agricultural Library





# BIBLIOGRAPHY OF AGRICULTURE

Vol. 28

August 1964

No. 8

The Bibliography of Agriculture is an index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Publications from any country are indexed, provided they are in one of the languages shown in CAPITALS at bottom of this column, or have summaries or abstracts in one of those languages.

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Indexing of articles on the processing of agricultural products is limited to those on primary processing.

Unsigned articles and those signed with pseudonyms or initials, editorials, letters to the editor, and columns appearing regularly, are omitted.

## FORMAT

The Bibliography is a classified arrangement of references under the following subjects:

- Plant Science
- Soils and Fertilizers
- Forestry
- Animal Industry
- Entomology
- Agricultural Engineering
- Agricultural Products
- Agricultural Economics and Rural Sociology
- Food and Human Nutrition
- Miscellaneous

The classified section is followed by the listing of:

- New Periodicals and Serials
- Translations
- USDA Publications
- State Agricultural Experiment Station Publications
- State Agricultural Extension Service Publications
- Food and Agriculture Organization of the UN (FAO) Publications

The last section of each monthly issue is the Personal and Organizational index for that issue.

Foreign language titles of articles in serial publications are given in English only. The language of the text is shown in abbreviated form in parentheses at the end of the title. The following notations are used:

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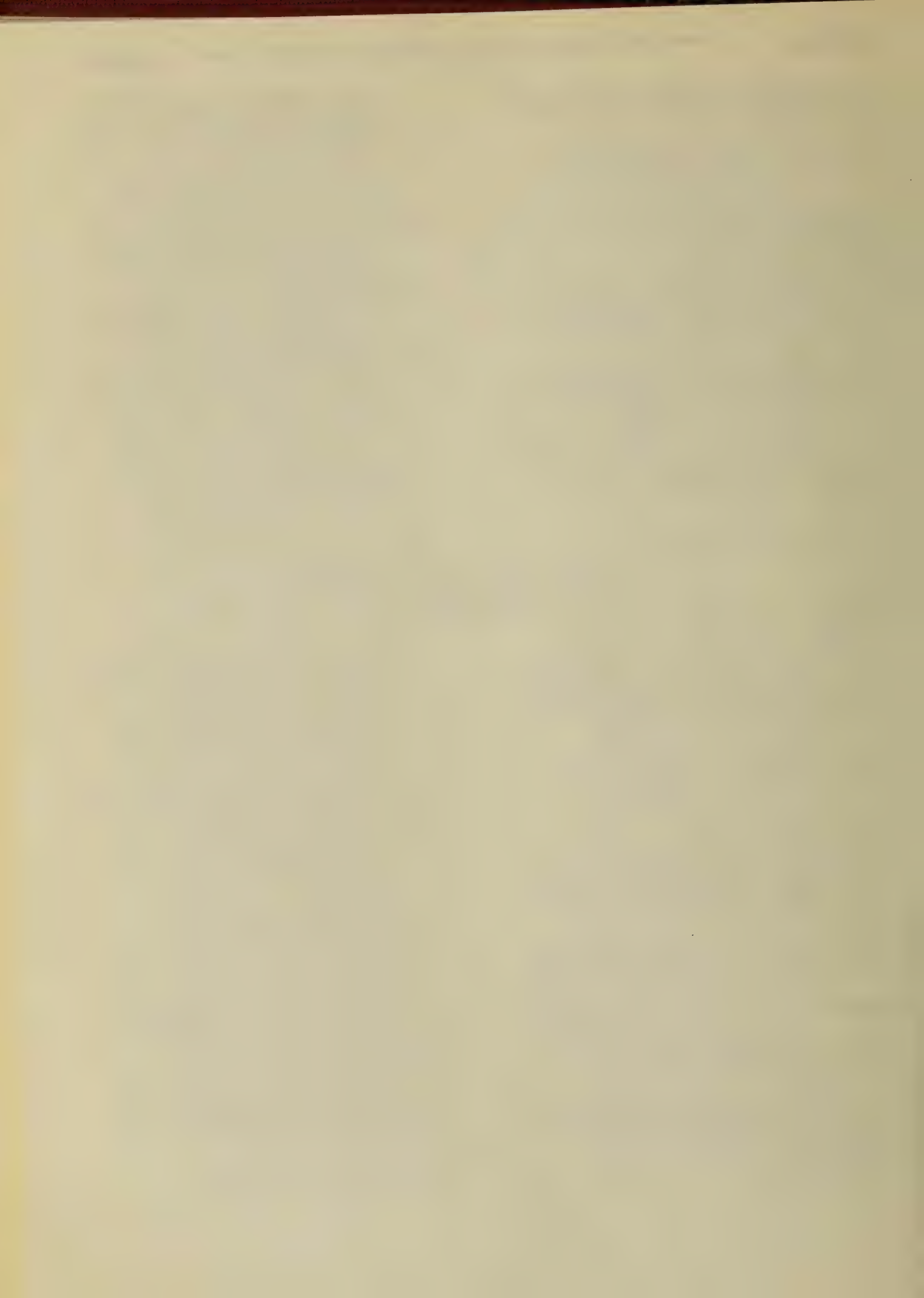
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Vol. 28

September 1964

No. 9

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Plant Science  
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Forestry  
Animal Industry  
Entomology  
Agricultural Engineering  
Agricultural Products  
Agricultural Economics and  
Rural Sociology  
Food and Human Nutrition  
Miscellaneous

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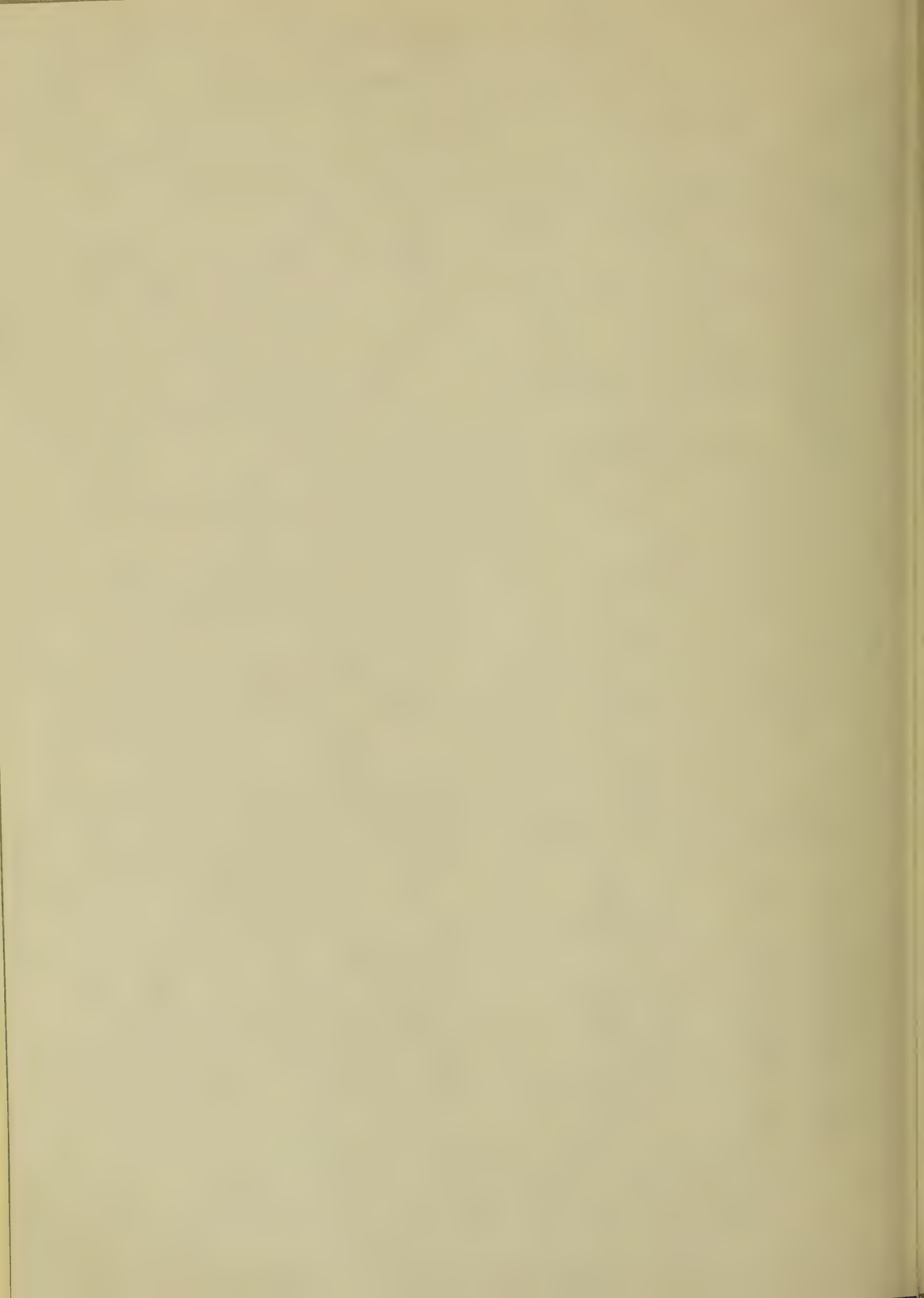
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Bureau publications may ordinarily be obtained free of charge from the issuing bureau as long as the supply lasts.

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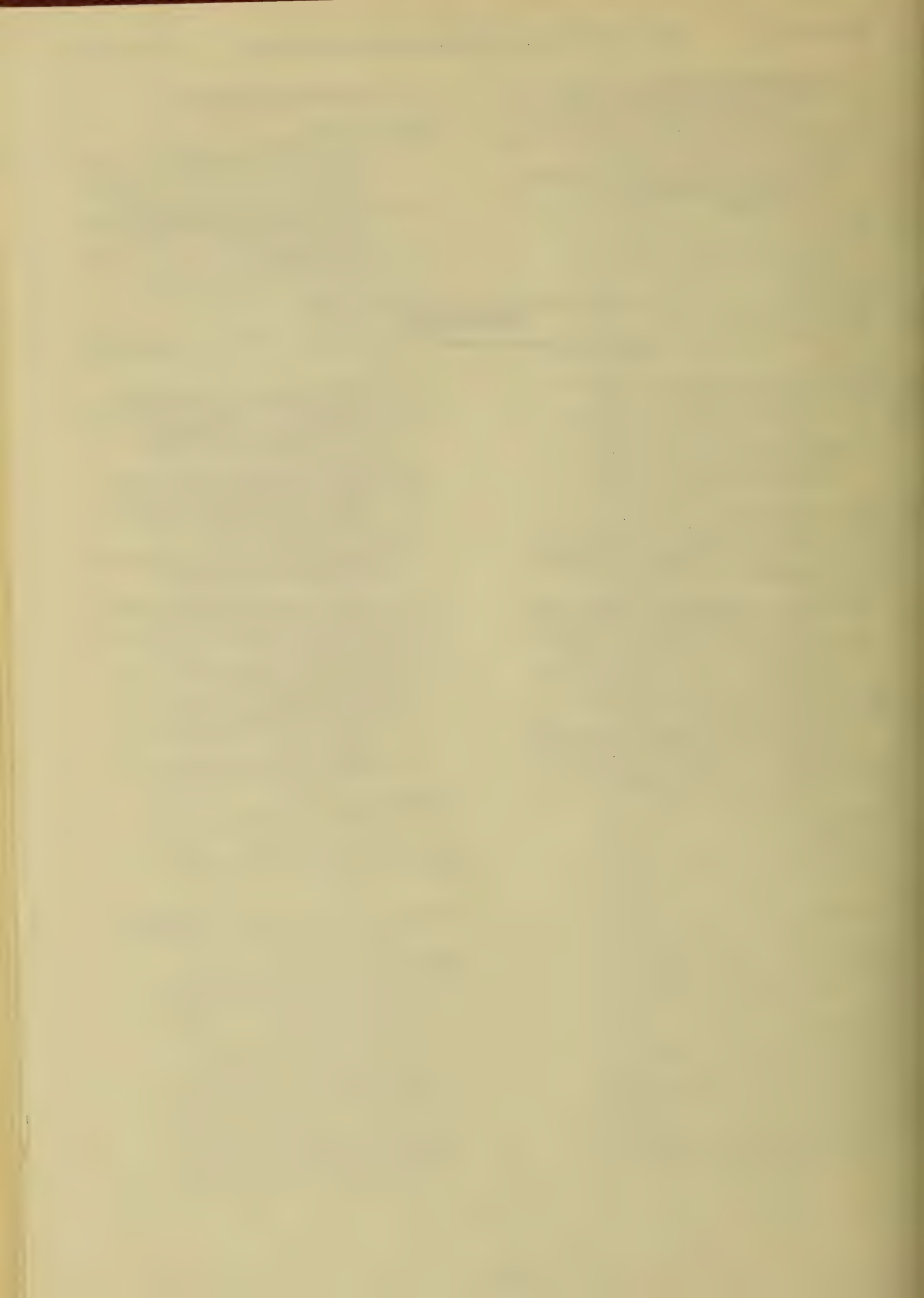
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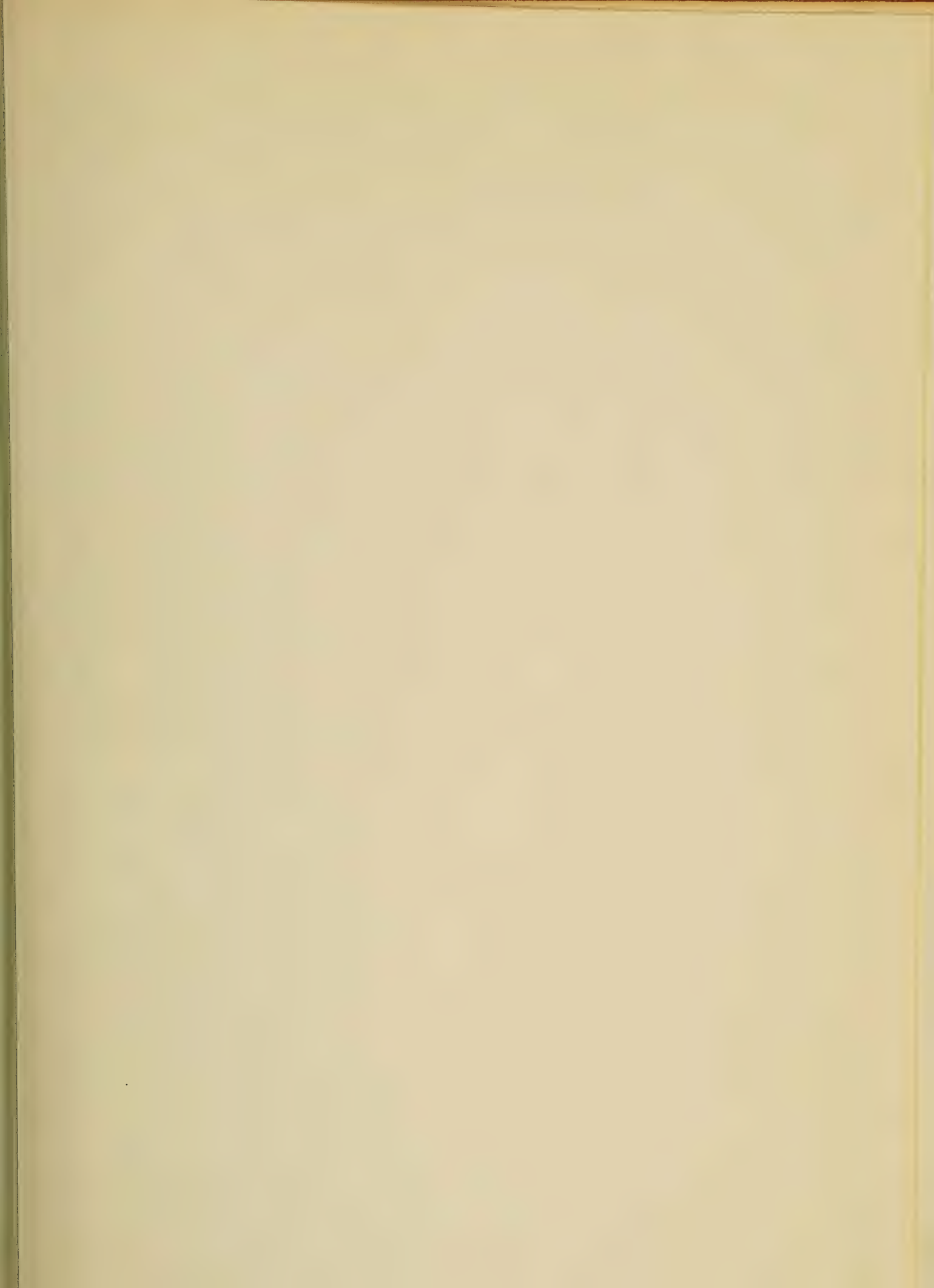
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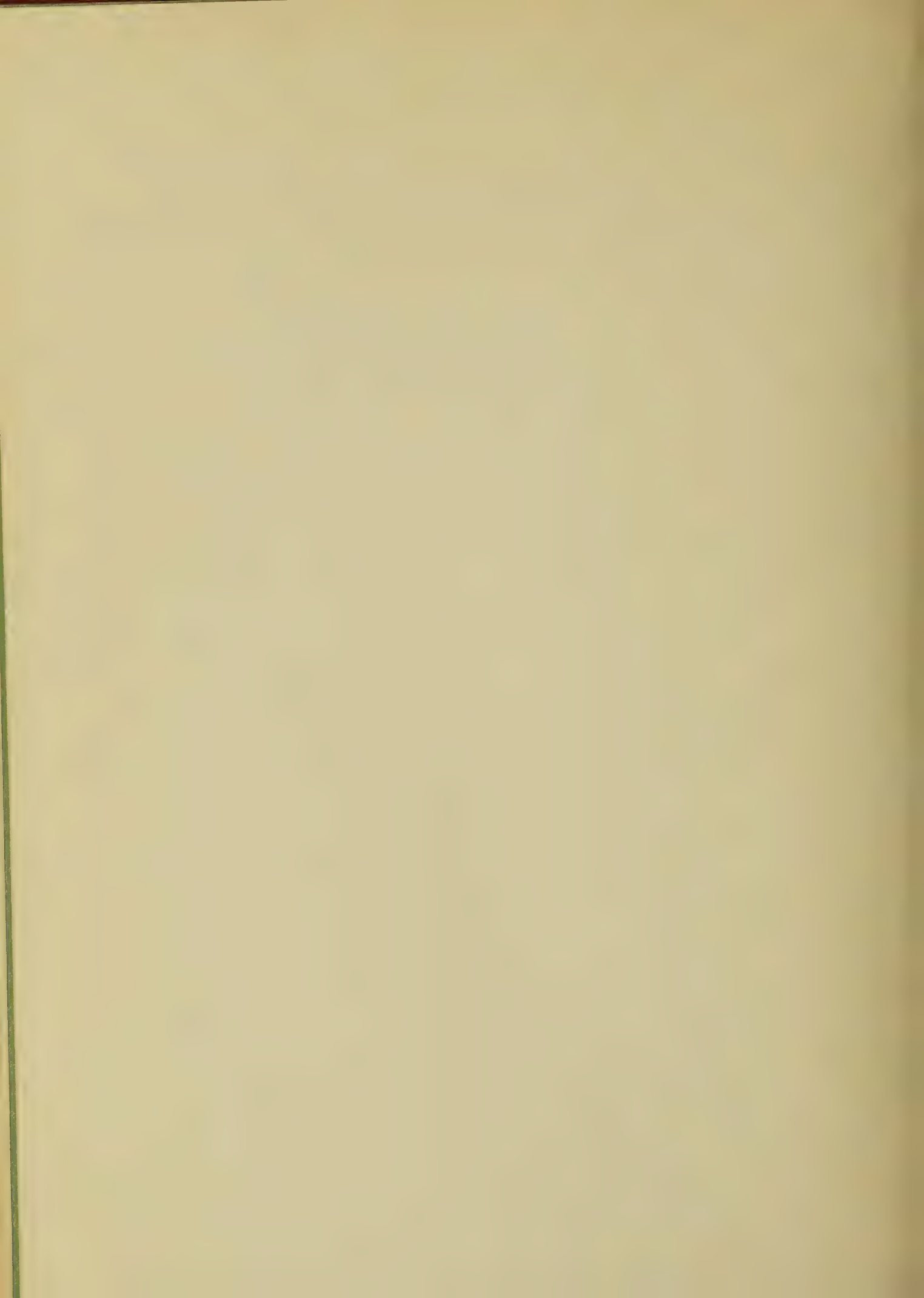
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